

Patent  
Attorney's Docket No. 034005-008

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of	)	
HENRIK SEMB <i>et al.</i>	)	Group Art Unit: 1636
Application No.: 10/500,118	)	Examiner: Unassigned
Filed: September 14, 2004	)	Confirmation No.: 7902
For: A METHOD FOR THE	)	
ESTABLISHMENT OF A	)	
PLURIPOTENT HUMAN	)	
BLASTOCYST - DERIVED STEM	)	
CELL LINE	)	

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is a national phase filing of International Application No.  
PCT/EP2002/014895, filed December 27, 2002.

On June 25, 2004, Applicants submitted a copy of the International Search Report dated August 8, 2003 and the International Preliminary Examination Report dated April 1, 2004.

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants submit information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

Applicants now provide copies of the thirteen (13) items cited in the International Search Report.

Applicants also provide copies of two Search Reports dated September 25, 2002 that were issued in conjunction with Swedish counterpart Application No. 0104471-8. Copies of the ten (10) publications cited during the prosecution of the Swedish counterpart are provided herewith.

Copies of U.S. Patent Nos. 5,843,780 and 6,200,806 that are cited at the bottom of Page 1 of the Specification are provided. U.S. Patent No. 6,200,806 also was cited in the International Search Report.

Additionally, Applicants provide copies of the following:

- (a) International Publication WO 00 12682 A1,
- (b) Thomson and Odorico (2000), Tibtech Vol. 18; 53-57,
- (c) Stem Cell Information, Executive Summary, pages ES-1 to ES-10, from NIH homepage <http://stemcells.nih.gov/info/scireport/execSum.asp>,
- (d) Assay et al. (2001), Diabetes vol. 50; 1691-97, and
- (e) Lee et al. (2000), Nature Biotechnology vol. 18; 675-79.


For the convenience of the Examiner, a form PTO-1449 is attached. It is requested that an Examiner-initialed copy of this form be returned to the undersigned once the above items are considered.

The examination and allowance of the Application are respectfully requested.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: January 27, 2005

By:   
Benton S. Duffett, Jr.  
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

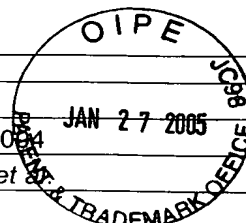
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of

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## Complete if Known

Application Number 10/500,118  
 Filing Date September 14, 2004  
 First Named Inventor HENRIK SEMB et al.  
 Examiner Name Unassigned  
 Attorney Docket Number 034005-008



## U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	5,843,780		THOMSON	December 1, 1998
	5,905,042		STICE et al.	May 18, 1999
	6,133,030		BHATIA et al.	October 17, 2000
	6,190,910		KUSAKABE et al.	February 20, 2001
	6,200,806		THOMSON	March 13, 2001
	6,245,566		GEARHART et al.	June 12, 2001

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS						
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec
	WO 97/20035 ✓		International	June 5, 1997							
	WO 99/27076 ✓		International	June 3, 1999							
	WO 00/12682 ✓		International	March 9, 2000							
	WO 00/27995 ✓		International	May 18, 2000							
	WO 01/29206 ✓		International	April 26, 2001							
	WO 01/30978 ✓		International	May 3, 2001							
	WO 01/51616 ✓		International	July 19, 2001							
	WO 01/68815 ✓		International	September 20, 2001							
	WO 01/83715 ✓		International	November 8, 2001							
	WO 02/059278 ✓		International	August 1, 2002							

## NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	M. ROPETER-SCHARFENSTEIN et al., "Identification, Isolation and Culture of Pluripotent Cells from the Porcine Inner Cell Mass", Journal of Animal Breeding and Genetics, Vol. 113, 1996, Pages 427 to 436, XP000971297 ISSN: 0931-2668.
	GORDON KELLER et al., "Human Embryonic Stem Cells: The Future is Now", Nature Medicine, Vol. 5, No. 2, February 1999, Pages 151 to 152, XP002248478 ISSN: 1078-8956.
	NADYA LUMELSKY et al., "Differentiation of Embryonic Stem Cells to Insulin-Secreting Structures Similar to Pancreatic Islets", Science, Vol. 292, No. 5520, 2001, Pages 1389 to 1394, XP002183377 ISSN: 0036-8075.
	SHIGEO OKABE et al., "Development of Neuronal Precursor Cells and Functional Postmitotic Neurons from Embryonic Stem Cells In Vitro", Mechanisms of Development, Vol. 59, 1996, Pages 89 to 102, XP001052878 ISSN: 0925-4773 Abstract.
	JAMES A. THOMSON et al., "Embryonic Stem Cell Lines Derived from Human Blastocysts", Science, Vol. 282, 6 November 1998, Pages 1145 to 1147, XP002121340 ISSN: 0036-8075 Abstract.
	JAMES A. THOMSON et al., "Isolation of a Primate Embryonic Stem Cell Line", Proc. Natl. Acad. Sci., Vol. 92, August 1995 Developmental Biology, Pages 7844 to 7848.
	L.R. CHEN et al., "Establishment of Pluripotent Cell Lines from Porcine Preimplantation Embryos", Theriogenology, Vol. 52, 1999, Pages 195 to 212.
	MICHAEL J. SHAMBLOTT et al., "Derivation of Pluripotent Stem Cells from Cultured Human Primordial Germ Cells", Proc. Natl. Acad. Sci. USA, Vol. 95, Pages 13726 to 13737, November 1998, Developmental Biology.
Examiner Signature	Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

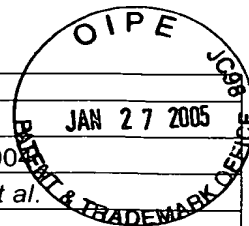
**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2 of 2

**Complete if Known**

Application Number	10/500,118
Filing Date	September 14, 2001
First Named Inventor	HENRIK SEMB <i>et al.</i>
Examiner Name	Unassigned
Attorney Docket Number	034005-008

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Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	JAMES A. THOMSON <i>et al.</i> , "Human Embryonic Stem Cell and Embryonic Germ Cell Lines", Focus, TIBTECH, February 2000, Vol. 18, Pages 53 to 57.
	Stem Cell Information, Executive Summary, Pages ES-1 to ES-10 from NIH homepage <a href="http://stemcells.nih.gov/info/scireport/execSum.asp">http://stemcells.nih.gov/info/scireport/execSum.asp</a> .
	SANG-HUN LEE <i>et al.</i> , "Efficient Generation of Midbrain and Hindbrain Neurons from Mouse Embryonic Stem Cells", Nature Biotechnology, Vol. 18, June 2000, Pages 675 to 679.
	SUHEIR ASSADY <i>et al.</i> , "Insulin Production by Human Embryonic Stem Cells", Diabetes, Vol. 50, August 2001, Pages 1691 to 1697.

Examiner Signature		Date Considered	
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